(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 10 March 2005 (10.03.2005)

PCT

(10) International Publication Number WO 2005/021767 A1

(51) International Patent Classification7: C12Q 1/68

C12N 15/85,

(21) International Application Number:

PCT/US2004/027970

- (22) International Filing Date: 27 August 2004 (27.08.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/499,310

28 August 2003 (28.08.2003)

- (71) Applicants (for all designated States except US): GEN-(71) Applicants (for all designated States except US): GEN-PATH PHARMACEUTICALS, INC. [US/US]; 300
 Technology Square, 7th Floor, Cambridge, Massachusetts 02139 (US). O'HAGAN, Ronan C. [CA/US]; 15 Garrison Road #2, Brookline, Massachusetts 02445 (US).

 (72) Inventor; and
 (75) Inventor/Applicant (for US only): HEYER, Joerg [DE/US]; 6 Fainwood Circle, Cambridge, Massachusetts 02139 (US).

 (74) Agents: HALEY, James F., Jr. et al.; c/o Fish & Neave, 1251 Avenue of the Americas, New York, New York 10020 (US).

 (75) Inventor/Applicant (For US only): HEYER, Joerg Cla once No. 1251 Avenue of the Americas, New York, New York 10020 (US). PATH PHARMACEUTICALS, INC. [US/US]; 300

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

> Express Mail Label No. EV669634786US

(57) Abstract: A reporter gene operably linked to a transcriptional control element that is up-regulated by a tumor-induced transcription factor is disclosed. This reporter gene construct can be used to detect tumor formation in vivo in an experimental animal.